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FIG. 1

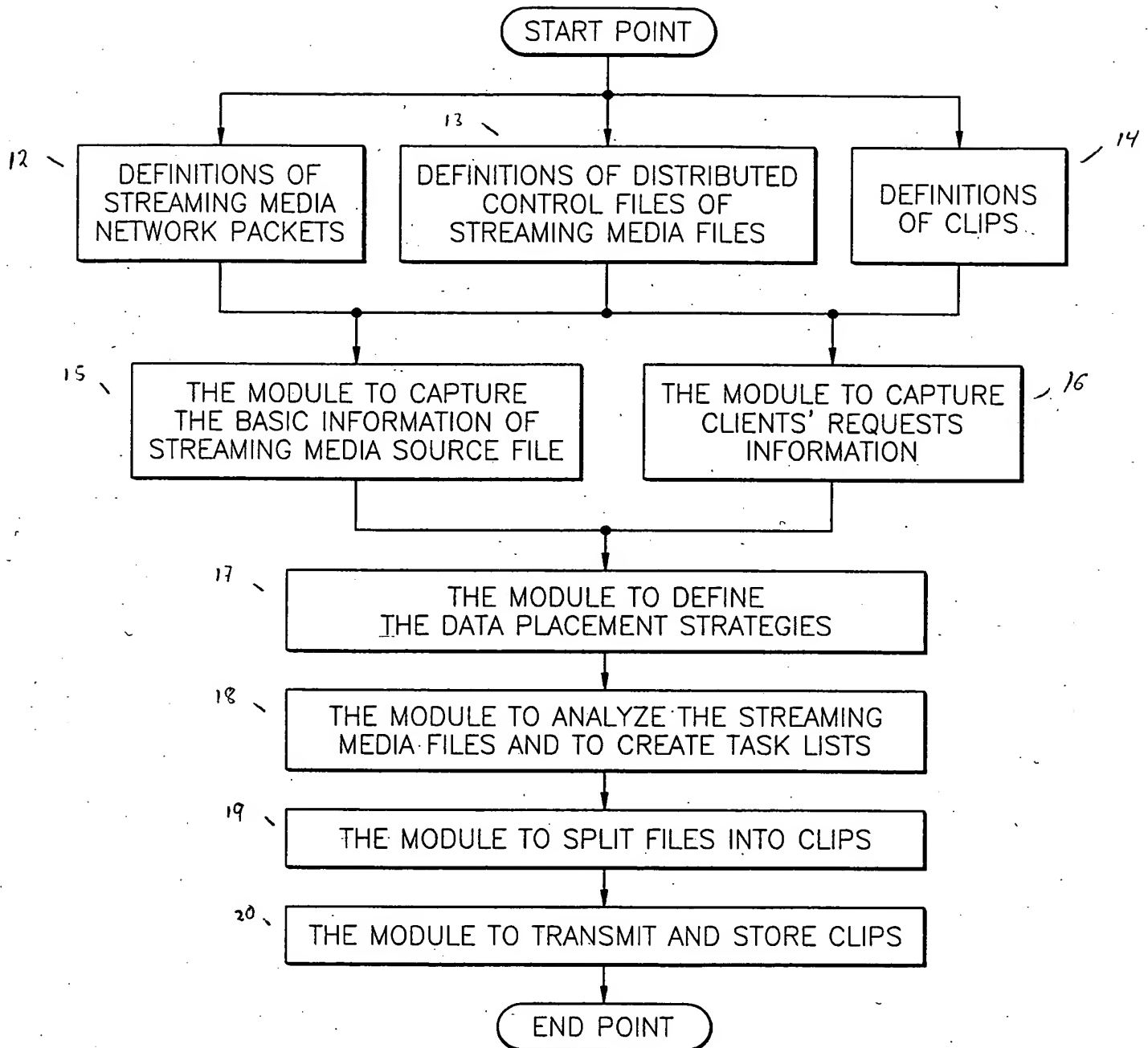


FIG. 2

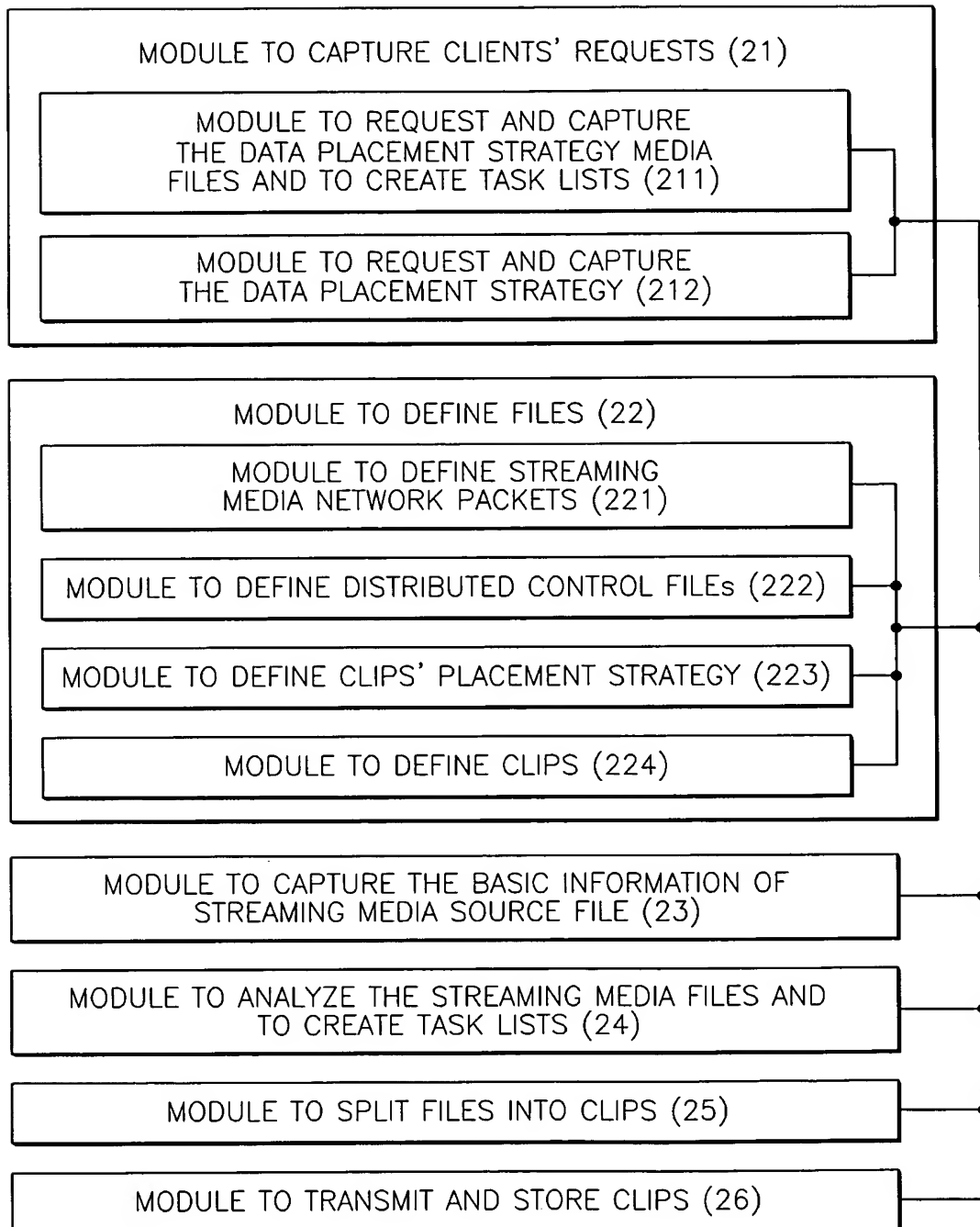


FIG. 3

STREAMING MEDIA NETWORK PACKETS:

MEDIA TYPE HEAD

SEQUENCE NUMBER TIME STAMP SYNCHRONOUS SOURCE PAYLOAD

| | | | | |
|---|-----|---|------|--|
| T | N | t | SSRC | |
| T | N+1 | t | SSRC | |
| T | N+2 | t | SSRC | |
| T | N+3 | t | SSRC | |

MEDIA TYPE HEAD: UNSIGNED SHORT INTEGER WITH 16 BITS

SEQUENCE NUMBER: UNSIGNED SHORT INTEGER WITH 16 BITS

TIME STAMP: UNSIGNED INTEGER WITH 32 BITS

SYNCHRONOUS SOURCE: UNSIGNED INTEGER WITH 32 BITS

PAYLOAD: AN ARRAY CONSISTED OF UNSIGNED CHAR WITH 8 BITS

FIG. 4

```
//the clips' information
typedef struct Clip
{
    //the storage addresses set of the clips and replicas
    Unsigned int (32 bits)      fHost IP [ MAX_REPLICA_NUM ] ;

    //the space size of the clip.
    Unsigned int 32 bits        fFileSize;
    //the start playtime counted in seconds;
    Float 64 bits              fStartTime;
    //the end playtime counted in seconds;
    Float 64 bits              fEndTime;
    //the sequence number of the first network packet of the clip;
    Unsigned int 32 bits        fStartPacketIndex;
    //the sequence number of the last network packet of the clip;
    Unsigned int 32 bits        fEndPacketIndex;

} Clip;

//the splitting task lists of one source file
typedef struct ClipTable
{
    //the space size of one media file;
    Unsigned int (32 bits)      fFileSize;
    //the hot option of one film;
    int                          fHot;
    //the name length of the source media file;
    Unsigned char (8 bits)      fNameLen;
    //the number of clips of one source media file;
    Unsigned char (8 bits)      fNumber;
    //the name of the source media file;
    Char                        *fName
    //the structure of each list item;
    Clip                        *fIndex;

} ClipTable;
```

FIG. 5

| |
|-------------------------|
| b=AS:1383 |
| a=range:npt=0- 46.57500 |
| m-OTHER 0 RTP/AVP 96 |
| b=AS:1383 |
| a=rtpmap:96 MP1S/90000 |
| a=control:trackID=2 |

FIG. 6

| | |
|--|--|
| Clip File header | |
| Header messages of one stream in the clip file | |
| Streaming Media Network Packets | |
| Header messages of another stream in the clip file | |
| Streaming Media Network Packets | |
| | |

FIG. 7

```
typedef struct FileHeader
{
    // Index ID of one clip file
    Unsigned int (16 bits)    fSplit_ID;
    //The version of the current splitting tool
    Unsigned int (32 bits)    fVersion;
    //The time length of the clip
    Float 64 (64 bits)    fMovieDuration
    //The number of the media streams in the clip
    Unsigned int (32 bits)    fNumTracks
    //The average bandwidth of the clip
    Float 64 (64 bits)    fBandWidth;
} File Header
```

FIG. 8

```
typedef struct TrackHeader
{
    //ID of the stream
    Unsigned char (8 bits)    fTrackID;
    //The duration of the stream
    Float (64 bits)    fTrackDuration;
    //The compression ratio of the stream
    Float (64 bits)    fCompressRatio;
    //The start location of the media data of the stream
    Unsigned int (32 bits)    fMediaPosition
} Fileheader
```

FIG. 9

| | | | | |
|---------------------------------------|-------------------------------|------------------------|---|----------------------------------|
| ID OF THE MEDIA STREAM (UNIT 8) | SERIAL NUMBER (UNIT 32) | PLAYTIME (FLOAT 64) | LENGTH OF THE NETWORK PACKET (UNIT 16) | NETWORK PACKET (UNIT 8[]) |
|---------------------------------------|-------------------------------|------------------------|---|----------------------------------|

UINT8: UNSIGNED CHAR (8 BITS)

UINT16: UNSIGNED INT (16 BITS)

UINT32: UNSIGNED INT (32 BITS)

FLOAT64: FLOAT (64 BITS)

FIG. 10

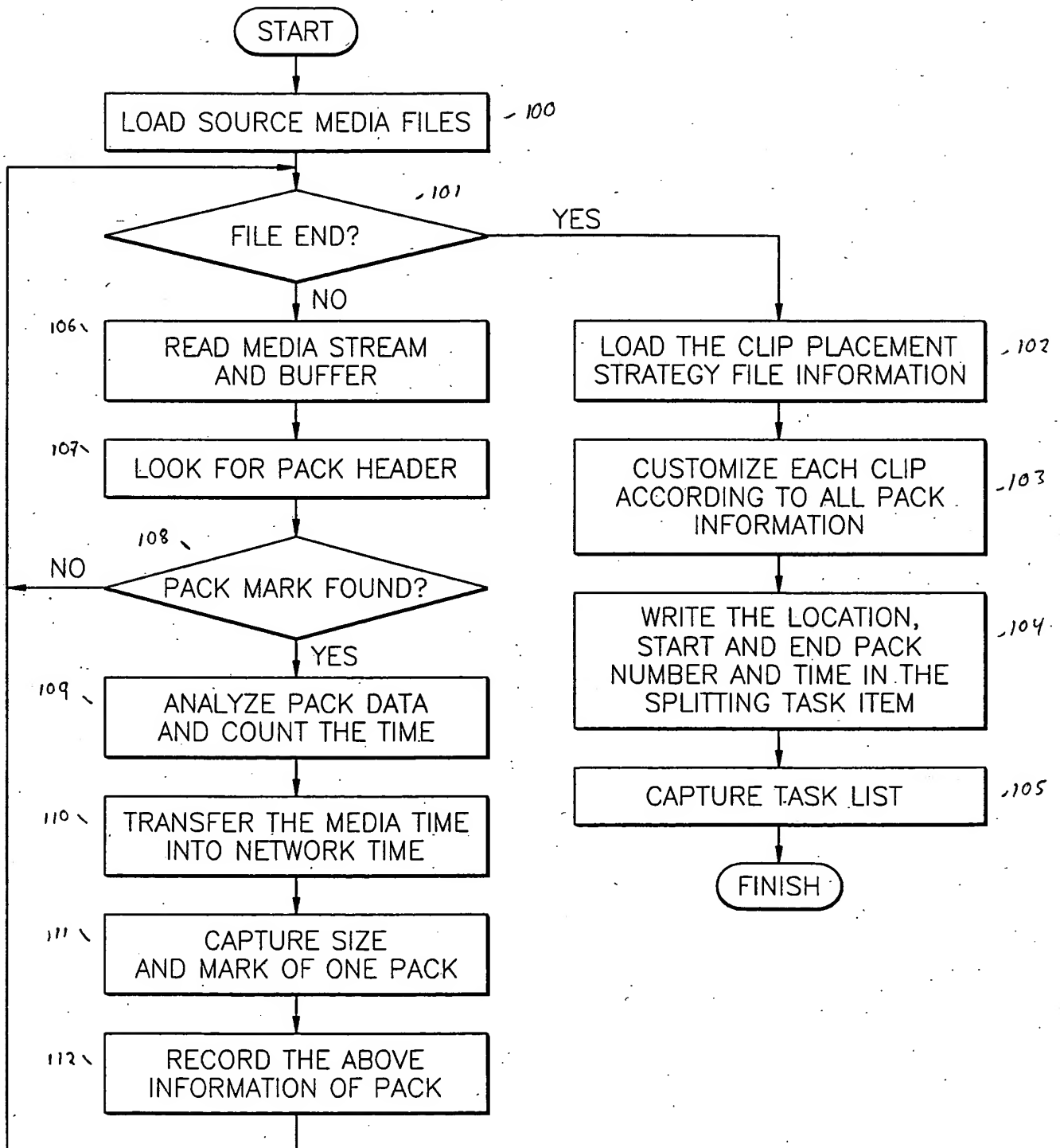


FIG. 11

```
typedef struct Each_Task_Info
```

```
{
```

```
    //start time of the clip-counted in seconds;
```

```
    Float (64 bits)          fStartTime;
```

```
    //start Pack sequence number of the clip;
```

```
    Unsigned int (32 bits)    fStartPackIndex;
```

```
    //Sstart offset of the clip
```

```
    Unsigned int (32 bits)    fStartPosition;
```

```
    // end offset of the clip
```

```
    Unsigned int (32 bits)    fEndPosition;
```

```
    // index of the clip
```

```
    Unsigned int (32 bits)    fIndex;
```

```
    //task finish percentage of the clip;
```

```
    Float (64 bits)          fWorkingProcessing;
```

```
    //task dispatch start time of the clip
```

```
    Time                    fSchedule_Start_Time;
```

```
    //total time of finishing the task of the clip. Its unit is second;
```

```
    Float (64 bits)          fSchedule_Total_Time;
```

```
    //whether the task of the clip is successful or not
```

```
    Unsigned char (8 bits)    fSucceed;
```

```
    } Each_Task_Info;
```

```
typedef struct Task_Info
```

```
{
```

```
    //the number of the items in the list
```

```
    Unsigned char (8 bits)    fNumber;
```

```
    //the handle of the source media file in the list
```

```
    int                      fSourceFile
```

```
    //all the splitting tasks
```

```
    Each_Task_Info *fIndex [ MAX_SPLIT_NUMBER ] ;
```

```
    } Task_Info;
```

FIG. 12

